

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: METALUX

Report Number: P828648

Luminaire Tested: **OHBL-24SE-MCL-UNV-L950-CD-UPL12**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P828648
REPORT IS A COMBINATION OF REPORTS P826078 AND G3-2310-221-12
Test Lab: INNOVATION CENTER
Issue Date: 5/3/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: OHBL-24SE-MCL-UNV-L950-CD-UPL12
Description:
Light Source: -
Ballast/Driver: -

Summary

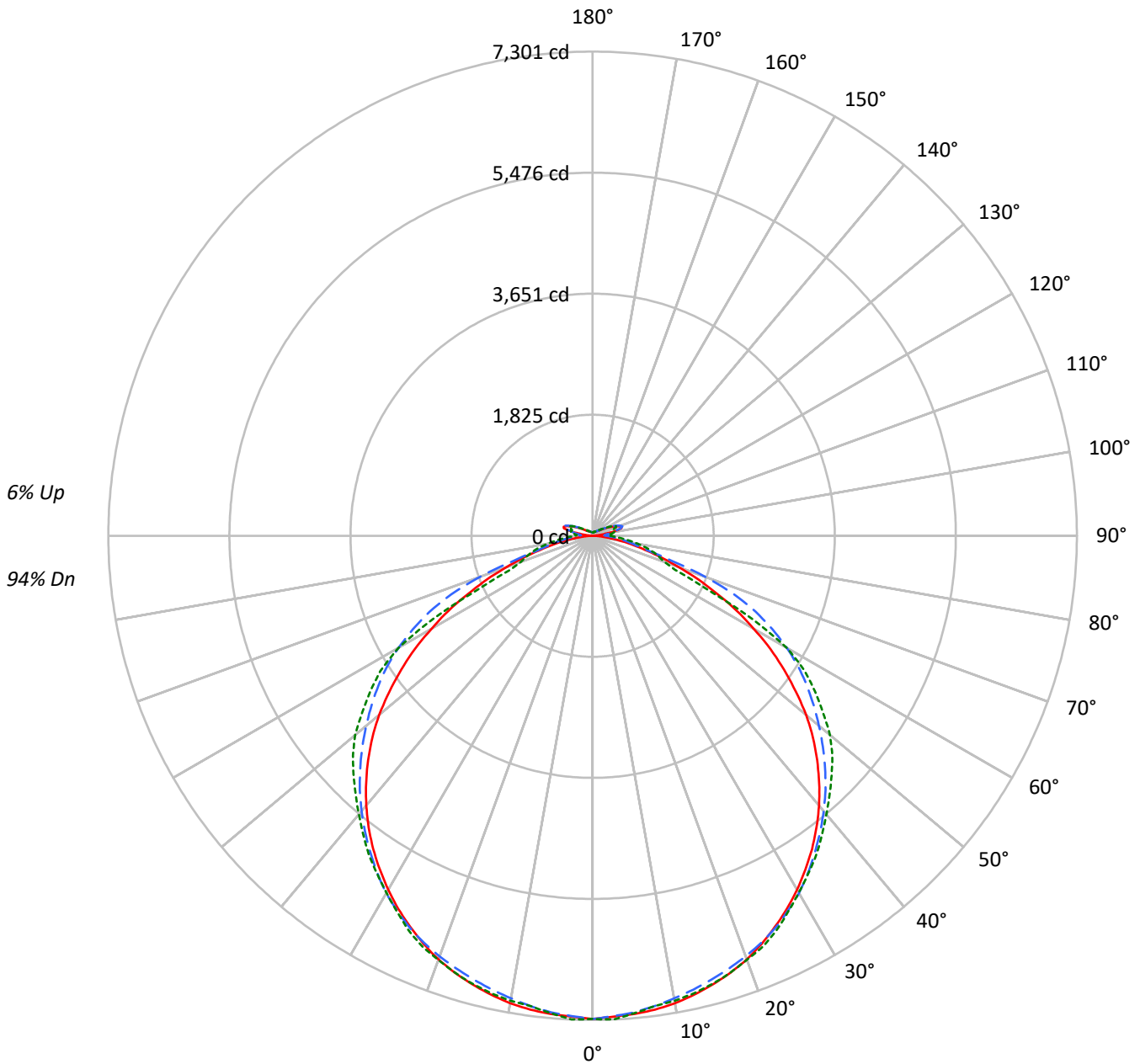
Lumens per Lamp: N/A
Luminaire Lumens: 21676.4 lumens
Efficiency: N/A
Efficacy: 148.1 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.27 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 3.78' x L: 1.67' x H: 0.17')
CIE Type: Direct

Input Watts (W): 146.4
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT

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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
RC	80									50									30									10									0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0																
RCR																																					
0	118	118	118	118	114	114	114	114	108	108	108	102	102	102	96	96	96	94																			
1	108	103	99	95	104	100	97	93	95	92	89	90	88	85	85	84	82	79																			
2	98	90	84	78	95	88	82	77	83	78	74	79	75	71	75	72	69	66																			
3	90	79	71	65	87	77	70	64	73	67	62	70	65	60	67	62	59	56																			
4	82	70	62	55	79	69	61	54	65	58	53	62	56	52	59	55	50	48																			
5	75	63	54	47	73	61	53	47	59	51	46	56	50	45	53	48	44	42																			
6	70	56	48	41	67	55	47	41	53	46	40	51	44	39	48	43	38	36																			
7	64	51	43	36	62	50	42	36	48	41	35	46	40	35	44	38	34	32																			
8	60	47	38	32	58	46	38	32	44	37	32	42	36	31	41	35	31	29																			
9	56	43	35	29	54	42	34	29	40	33	28	39	32	28	37	32	28	26																			
10	52	39	32	26	51	39	31	26	37	30	26	36	30	25	35	29	25	23																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	12444	12444	12444
5°	12303	12258	12341
10°	12198	12067	12256
15°	12061	11923	12227
20°	11923	11830	12173
25°	11715	11736	12122
30°	11493	11591	11952
35°	11237	11365	11890
40°	10922	11131	11788
45°	10509	10861	11792
50°	9975	10554	11793
55°	9177	10251	11463
60°	8162	9810	10726
65°	6878	9001	6905
70°	5406	7012	5115
75°	3908	4150	5361
80°	2559	3435	5405
85°	1282	3119	5683



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	687.0	3.2
10°-20°	1970.0	9.1
20°-30°	3008.8	13.9
30°-40°	3650.7	16.8
40°-50°	3826.3	17.7
50°-60°	3467.2	16.0
60°-70°	2324.6	10.7
70°-80°	1043.9	4.8
80°-90°	381.5	1.8
90°-100°	217.5	1.0
100°-110°	413.7	1.9
110°-120°	336.1	1.6
120°-130°	163.0	0.8
130°-140°	84.3	0.4
140°-150°	50.0	0.2
150°-160°	30.3	0.1
160°-170°	16.3	0.1
170°-180°	5.0	0.0
0°-30°	5665.9	26.1
0°-40°	9316.6	43.0
0°-60°	16610.2	76.6
0°-90°	20360.2	93.9
90°-120°	967.2	4.5
90°-150°	1264.5	5.8
90°-180°	1316.0	6.1
0°-180°	21676.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	7286	7286	7286	7286	7286	
5°	7239	7264	7213	7236	7226	688
15°	7004	6976	6927	6988	6996	1977
25°	6506	6478	6523	6583	6564	2999
35°	5767	5781	5840	5902	5879	3604
45°	4786	4864	4955	5081	5097	3687
55°	3522	3692	3943	4101	4092	3144
65°	2067	2390	2714	2290	1870	2059
75°	813	1180	868	888	946	889
85°	140	269	344	416	436	171
90°	4	105	199	250	264	10
95°	23	106	197	249	269	73
105°	454	468	439	341	323	430
115°	321	326	344	350	347	321
125°	160	168	182	183	185	150
135°	98	102	106	112	114	78
145°	75	78	78	80	82	48
155°	63	65	66	66	65	29
165°	57	57	58	58	58	16
175°	52	52	51	50	50	5
180°	50	50	50	50	50	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	7286.0	7286.0	7286.0	7286.0	<i>7286.0</i>
2.5°	<i>7256.6</i>	<i>7287.1</i>	<i>7249.2</i>	<i>7290.3</i>	<i>7300.8</i>
5°	7238.6	7263.9	7213.3	7235.5	<i>7226.0</i>
7.5°	7206.0	7214.4	7154.4	7172.3	<i>7153.4</i>
10°	7157.5	7153.4	7082.8	7117.5	<i>7121.7</i>
12.5°	7085.9	7073.3	7010.1	7062.7	<i>7063.8</i>
15°	7003.7	6976.3	6926.8	6987.9	<i>6996.3</i>
17.5°	6908.9	6873.0	6840.4	6919.5	<i>6906.8</i>
20°	6798.3	6756.1	6749.8	6836.2	<i>6804.6</i>
22.5°	6661.3	6628.6	6643.4	6725.6	<i>6705.6</i>
25°	6506.5	6478.1	6523.4	6583.3	<i>6564.4</i>
27.5°	6343.2	6326.3	6377.9	6424.3	<i>6387.4</i>
30°	6164.1	6154.6	6223.0	6261.0	<i>6214.6</i>
32.5°	5969.2	5972.3	6037.7	6089.2	<i>6046.1</i>
35°	5766.9	5780.6	5839.6	5901.8	<i>5878.6</i>
37.5°	5544.6	5575.1	5634.2	5704.8	<i>5680.5</i>
40°	5309.7	5354.0	5419.2	5504.5	<i>5482.5</i>
42.5°	5055.8	5111.6	5195.9	5290.7	<i>5288.6</i>
45°	4786.1	4864.0	4954.6	5081.0	<i>5096.9</i>
47.5°	4505.8	4593.3	4708.1	4876.7	<i>4900.9</i>
50°	4201.4	4311.0	4454.3	4656.5	<i>4671.3</i>
52.5°	3862.2	4011.8	4201.4	4395.2	<i>4377.3</i>
55°	3521.9	3691.5	3943.3	4101.3	<i>4091.8</i>
57.5°	3182.6	3373.4	3678.9	3791.6	<i>3790.5</i>
60°	2803.3	3044.6	3378.6	3464.0	<i>3379.6</i>
62.5°	2452.5	2711.7	3058.4	2996.2	<i>2707.5</i>
65°	2067.0	2390.5	2713.8	2290.3	<i>1870.0</i>
67.5°	1724.6	2061.7	2305.1	1568.7	<i>1343.2</i>
70°	1380.1	1752.0	1797.3	1164.1	<i>1148.4</i>
72.5°	1074.5	1470.7	1240.0	996.6	<i>1047.2</i>
75°	813.3	1179.9	868.1	888.1	<i>946.0</i>
77.5°	593.1	906.0	675.3	778.5	<i>826.0</i>
80°	407.7	641.6	551.0	654.3	<i>686.9</i>
82.5°	256.0	423.5	441.4	526.8	<i>560.4</i>
85°	140.2	268.7	344.5	416.1	<i>436.1</i>
87.5°	57.9	162.2	263.4	321.3	<i>338.2</i>
90°	3.7	105.2	198.9	250.3	<i>264.3</i>
92.5°	8.9	88.5	178.4	227.1	<i>238.8</i>
95°	22.8	106.2	197.0	249.4	<i>269.3</i>
97.5°	119.5	172.1	246.5	293.7	<i>306.6</i>
100°	243.1	295.1	300.0	327.5	<i>335.1</i>
102.5°	385.9	405.9	346.4	335.1	<i>333.9</i>
105°	453.7	468.5	439.2	341.3	<i>322.7</i>



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	370.8	380.8	399.2	394.8	382.1
115°	321.4	325.6	344.4	350.2	347.2
117.5°	271.0	276.6	295.0	298.7	299.1
120°	228.4	234.7	250.1	251.9	252.9
122.5°	193.6	198.0	212.1	214.8	216.8
125°	160.4	167.5	181.5	182.9	184.9
127.5°	136.2	141.5	156.0	158.2	159.3
130°	119.7	124.2	133.9	138.9	138.9
132.5°	108.6	112.2	118.9	124.0	124.9
135°	98.2	101.8	106.3	112.5	113.5
137.5°	92.2	94.0	96.6	102.8	104.7
140°	85.3	87.9	88.6	93.7	94.8
142.5°	79.0	81.8	82.5	86.5	88.5
145°	74.7	77.5	78.3	80.2	82.2
147.5°	71.4	73.1	74.9	74.9	76.8
150°	68.8	69.6	70.5	71.4	71.4
152.5°	65.3	66.2	67.0	67.9	67.9
155°	62.7	64.6	65.5	66.3	65.3
157.5°	60.1	62.9	62.9	63.7	63.7
160°	58.3	60.3	61.1	61.1	61.1
162.5°	57.6	58.5	58.5	59.4	59.4
165°	56.8	56.8	57.6	57.6	57.6
167.5°	55.0	56.1	55.9	55.9	55.9
170°	54.2	54.2	54.2	54.0	54.0
172.5°	53.3	53.3	53.3	52.3	52.3
175°	52.4	52.4	51.4	50.3	50.3
177.5°	52.6	52.4	51.4	50.3	49.3
180°	50.5	50.5	50.5	50.5	50.5



Report Generated By 670246072 / DESKTOP-50001EG





— 0°-180° - - 45°-225° - - - - 90°-270°







107.5°	457.4	473.8	469.8	386.5	332.9
110°	420.2	436.8	444.0	417.9	375.6



(END OF REPORT)